ABSTRACT

A temperature sensor measures a temperature of a certain location inside a processor. An overall heat amount measurement unit measures the overall amount of heat of the processor. temperature estimation unit estimates the temperatures of plurality of hot spots occurring in the processor based on the temperature of the certain location detected by the temperature sensor, and determines the maximum temperature of the processor. The temperature estimation unit switches between maximum load coefficients and temperature estimation temperature estimation coefficients stored in a storing unit for reference, depending on the overall amount of heat of the a temperature estimation applies them to processor, and for converting the sensor temperature into the function(s) An operating frequency control temperatures of the hot spots. unit exercises control for lowering the operating frequency of the processor when the maximum temperature of the processor temperature estimation unit exceeds estimated by the predetermined limit temperature.

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